APS SEARCH: 08/336,335

- => s 82/clas or 364/clas or 409/clas or 451/clas
 - 14911 82/CLAS
 - 57815 364/CLAS 16207 409/CLAS
 - 41701 451/CLAS
- 124962 82/CLAS OR 364/CLAS OR 409/CLAS OR 451/CLAS
- => s 11 and (lath? or turn?)

 - 821890 TURN?
 - 38253 L1 AND (LATH? OR TURN?)
- => s 12 and (reciproc? or oscilat? or vibrat? or frequenc?)(3a)(tool? or work?) 147950 RECIPROC?
 - 752 OSCILAT?
 - 138755 VIBRAT?
 - 297047 FREQUENC?

181990 TOOL?

531227 WORK?

10475 (RECIPROC? OR OSCILAT? OR VIBRAT? OR

FREQUENC?)(3A)(TOOL? O

1090 L2 AND (RECIPROC? OR OSCILAT? OR VIBRAT? OR FREQUENC?)(3A)(

L? OR WORK?)

= > s 13 and cut?

535537 CUT?

775 L3 AND CUT?

> s 14 and (sin?(2a)(wave or curve) UNMATCHED LEFT PARENTHESIS 'AND (SIN?'

= > s 14 and (sin?(2a)(wave or curve))

TERM 'SIN?' EXCEEDED TRUNCATION LIMITS - SEARCH ENDED

= > s l4 and (wave or curve or harmonic)

157739 WAVE

166500 CURVE

18355 HARMONIC 206 L4 AND (WAVE OR CURVE OR HARMONIC)

=> s 15 and (computer or control) 146734 COMPUTER

872360 CONTROL

175 L5 AND (COMPUTER OR CONTROL) L6

- = > d 1-175
- 1. 5,453,931, Sep. 26, 1995, Navigating robot with reference line plotter; James R. Watts, Jr., **364/424.02**; 180/8.5, 168; 395/80 [IMAGE
- 2. 5,447,463, Sep. 5, 1995, Apparatus for microfinishing; Heinz G. Schmitz, **451/14**, **10**, **49**, **172** [IMAGE AVAILABLE]
- 3. 5,418,731, May 23, 1995, Numerical **control** unit for non-circular workpiece fabricating machine; Tatsuhiro Yoshimura, et al., **364/474.31**; 318/573; **364/474.06** [IMAGE AVAILABLE]
- 4. 5,406,494, Apr. 11, 1995, Numerical **control** system with operator controlled **cutting**; Todd J. Schuett, **364/474.3**; 318/569; **364/474.28** [IMAGE AVAILABLE]
- 5. 5,402,354, Mar. 28, 1995, **Control** apparatus and **control** method for machine tools using fuzzy reasoning; Fumito Okino, et al., **364/474.16**, **474.06**; 395/904; **451/5** [IMAGE AVAILABLE]
- 5,396,434, Mar. 7, 1995, Machining-error correcting method used for a non-circular shape machining apparatus; Hiroshi Oyama, et al., **364/474.35**; 318/570, 573; **364/474.31** [IMAGE AVAILABLE]
- 7. 5,390,408, Feb. 21, 1995, Slotting; Arthur E. Bishop, et al., 29/558, 890.132; **409/244**, **293** [IMAGE AVAILABLE]
- 8. 5,357,439, Oct. 18, 1994, Custom-made manufacturing system and custom-made manufacturing method; Kichie Matsuzaki, et al., **364/468**,
 188 [IMAGE AVAILABLE]
- 9. 5,348,008, Sep. 20, 1994, Cardiorespiratory alert system; Robert Bornn, et al., 128/642, 644, 671, 696, 710, 903, 904; **364/413.02** [IMAGE AVAILABLE]

- 10. 5,347,763, Sep. 20, 1994, Polishing apparatus; Masahiko Miyamato, et al., **451/241**, **36** [IMAGE AVAILABLE]
- 11. 5,336,024, Aug. 9, 1994, Precision drilling method; Teruo Nakagawa, et al., 408/1R; **364/474.16**, **474.19**; 408/8, 13 [IMAGE AVAILABLE]
- 12. RE 34,663, Jul. 19, 1994, Non-invasive determination of mechanical characteristics in the body; Joseph B. Seale, 128/774, 649, 677; **364/508** [IMAGE AVAILABLE]
- 13. 5,323,324, Jun. 21, 1994, Yarn tension **control** system; Lars-Berno Fredriksson, **364/470**; 139/452; **364/138** [IMAGE **AVAILABLE**
- 14. 5,321,350, Jun. 14, 1994, Fundamental frequency and period detector; Peter Haas, 324/76.11; **364/484** [IMAGE AVAILABLE]
- 15. 5,317,943, Jun. 7, 1994, Method and apparatus for ultrasonically **cutting** mat board; Barton K. Dowdle, 83/56, 100, 577; **409/132** [IMAGE AVAILABLE]
- 16. 5,305,556, Apr. 26, 1994, Method and apparatus for shaping the interior surfaces of bores; Oswald Kopp, et al., **451/165**, **27**, **124** [IMAGE AVAILABLE]
- 17. 5,289,660, Mar. 1, 1994, Method and apparatus for grinding non-circular workpiece; Fumitoshi Terasaki, et al., **451/49**, **5**, **228** [IMAGE AVAILABLE]
- 18. 5,287,280, Feb. 15, 1994, Method and apparatus for controlling shoe slip of crawler vehicle; Shigeru Yamamoto, et al., **364/426.03**; 180/197; **364/424.07** [IMAGE AVAILABLE]
- 19. 5,251,151, Oct. 5, 1993, Method and apparatus for diagnosing the state of a machine; Victor Demjanenko, et al., **364/550**, **508**, **551.02** [IMAGE AVAILABLE]
- 20. 5,245,793, Sep. 21, 1993, Method and apparatus for fine working or microfinishing; Heinz G. Schmitz, **451/49**, **14** [IMAGE AVAILABLE]
- 21. 5,239,978, Aug. 31, 1993, Oscillatory abrasive cable power saw; Gus F. Plangetis, 125/16.01; 83/651.1; 125/19; **451/356**, **454** [IMAGE AVAILABLE]
- 22. 5,187,669, Feb. 16, 1993, Programmable surface sensor for machining rough stock; Douglas G. Wildes, et al., **364/474.17**, **474.16** [IMAGE AVAILABLE]
- 23. 5,186,695, Feb. 16, 1993, Apparatus for controlled exercise and diagnosis of human performance; Glen Mangseth, et al., 482/6; 73/379.06; **364/413.02**; 434/247; 482/4, 51, 900, 902, 903; 601/26, 33 [IMAGE AVAILABLE)
- 24. 5,165,205, Nov. 24, 1992, Device for vibrating materials to be ground; Takeo Nakagawa, et al., **451/392**; 366/108, 111; **451/272** [IMAGE AVAILABLE]
- 25. 5,148,372, Sep. 15, 1992, Interactive graphic system for the mathematical representation of physical models; Roberto Maiocco, et al., **364/474.24**, **474.37**, **551.02** [IMAGE AVAILABLE]
- 26. 5,144,773, Sep. 8, 1992, Honing or grinding tool and measuring device for measuring wear; Gerhard Flores, et al., **451/8**; 73/104; 407/119; **451/540**, **544** [IMAGE AVAILABLE]
- 27. 5,125,188, Jun. 30, 1992, Grinding wheel having grinding monitoring and automatic wheel balance **control** functions; Koji Ogawa, et al., **451/5**; 74/573R, 574; **451/6**, **7**, **10**, **21**, **343** [IMAGE AVAILABLE]
- 28. 5,117,180, May 26, 1992, Method and apparatus for measuring RMS values; Ronald L. Swerlein, 324/132; 327/349; **364/483** [IMAGE AVAILABLE
- 29. 5,113,728, May 19, 1992, Method and apparatus for forming intermittent chips when machining a rotating workpiece; Ludwik A. Medeksza, **82/1.11**, **134**, **137**, **904**; 408/IR, 17 [IMAGE **AVAILABLE**1
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- 31. 5,101,599, Apr. 7, 1992, Ultrasonic machine having amplitude **control** unit; Hideki Takabayasi, et al., **451/165**; 83/701; 173/11; **451/11**, **910** [IMAGE AVAILABLE]
- 32. 5,100,270, Mar. 31, 1992, Apparatus and method for **cutting** mat

- board; Robert K. Dowdle, et al., **409/132**; 83/100, 956; 144/252R; **409/137**, **192**, **202**, **203** [IMAGE AVAILABLE]
- 5,076,020, Dec. 31, 1991, Apparatus for in-situ dressing of threaded grinding wheels used in gear grinding machines; Roberto Negri, "451/21**; 125/11.02, 11.13; "451/56**, "*72** [IMAGE AVAILABLE]
- 34. 5,058,437, Oct. 22, 1991, Determining the quantity yield of a compressible fluid flowing through a pressure reducing valve; Claude Chaumont, et al., 73/861.21; **364/510** [IMAGE AVAILABLE]
- 35. 5,054,340, Oct. 8, 1991, Apparatus for machining a non-circular workpiece; Kazuhiko Sugita, et al., **82/18**, **118**, **137**, **904** [IMAGE AVAILABLE]
- 36. 5,050,468, Sep. 24, 1991, Method and apparatus for **cutting** a circumferential serpentine groove in a workpiece using an engine **alahe*: James D. Nydigger, **821/.11**, **18**, **118**, **134**; **364/474.02** [IMAGE AVAILABLE]
- 37. 5,042,335, Aug. 27, 1991, Method and apparatus for manufacturing a body with a surface of revolution at its end with the axis thereof aligned with an axis of the body; Moreno Ciboldi, et al., **82/117**, **18**. **903
- 38. 5,018,913, May 28, 1991, Device for controlling the tool position depending on the stroke position; Walter Seiberlich, **409/34**, **60**, **334** [IMAGE AVAILABLE]
- 39. 5,010,491, Apr. 23, 1991, Automated system for machining parts to close tolerances; Alberto Biasillo, et al., **364/474.28**, **167.01**, **474.06**, **474.37** [IMAGE AVAILABLE]
- 40. 5,010,224, Apr. 23, 1991, Very small orifice manufacturing system; Roy D. Shirey, et al., 219/69.17; 73/4R, 37.5; **364/474.04**, **552**; 408/2 [IMAGE AVAILABLE]
- 41. 5,001,649, Mar. 19, 1991, Linear power **control** for ultrasonic probe with tuned reactance; Ying-Ching Lo, et al., **364/484**; 310/316; 323/205, 206; 324/727; 331/1R, 36R, 181; **364/481** [IMAGE AVAILABLE]
- 42. 4,999,954, Mar. 19, 1991, Polishing apparatus; Masahiko Miyamoto, et al., **451/5**, **277** [IMAGE AVAILABLE]
- 43. 4,984,394, Jan. 15, 1991, Method and apparatus for grinding straight-edged **cutting** tools to a fine finish; Hiromi Suzuki, et al., **451/5**, **24**, **160**, **259**, **278** [IMAGE AVAILABLE]
- 44. 4,974,368, Dec. 4, 1990, Polishing apparatus; Masahiko Miyamoto, et al., **451/159**, **9**, **276**, **280** [IMAGE AVAILABLE]
- 45. 4,970,656, Nov. 13, 1990, Analog drive for ultrasonic probe with tunable phase angle; Ying-Ching Lo, et al., **364/481**; 73/589, 648; 310/316; 318/116; 323/208, 211; 331/36R; **364/484** [IMAGE AVAILABLE]
- 46. 4,958,286, Sep. 18, 1990, Time-variant filter coefficients; Wallace H. Meyer, Jr., **364/422**; 73/151; 324/338, 339 [IMAGE AVAILABLE]
- 47. 4,954,960, Sep. 4, 1990, Linear power **control** for ultrasonic probe with tuned reactance; Ying-Ching Lo, et al., **364/484**, 318/729; 323/205, 208; 324/654; 331/181; **364/482**, **571.01** [IMAGE AVAILABLE]
- 48. 4,947,715, Aug. 14, 1990, Method and apparatus for **cutting** an aspheric surface on a workpiece; Buford W. Council, Jr., **82/1.11**, **12**, **18**, **142**, **147**; **451/42**, **277** [IMAGE AVAILABLE]
- 49. 4,936,052, Jun. 26, 1990, Machine and method of grinding molding die; Noboru Nagase, et al., **451/152**, **9**, **127**, **160**, **913** [IMAGE AVAILABLE]
- 4,928,561, May 29, 1990, Method and apparatus for ultra-precise machining applied to executing atypical surfaces of revolution and to servo-controlled machining; Claude Fouche, **82/1.11**, **147**; 310/90.5 [IMAGE AVAILABLE]
- 51. 4,918,616, Apr. 17, 1990, Tool monitoring system; Kiyokazu Yoshimura, et al., **364/507**; 73/587; 340/680; **364/474.17**, **474.37**, **508**, **551.02** [IMAGE AVAILABLE]
- 52. 4,911,044, Mar. 27, 1990, Ultrasonic vibration **cutting** device; Shoji Mishiro, et al., **82/158**, **160**, **904** [IMAGE AVAILABLE]
- 53. 4,896,460, Jan. 30, 1990, Rail grinding machine; Josef Theurer, et al., **451/347** [IMAGE AVAILABLE]
- 54. 4,884,941, Dec. 5, 1989, Active compliant end-effector with force, angular position, and angular velocity sensing; Homayoon Kazerooni, 414/744.5; 74/479.01; 414/917; **451/5**, **11**; 901/9, 41, 45 [IMAGE

AVAILABLE]

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- 56. 4,845,900, Jul. 11, 1989, Method and apparatus for grinding straight-edged **cutting** tools to a fine finish; Hiromi Suzuki, et al., **451/5**, **45**, **160**, **262** [IMAGE AVAILABLE]
- 57. 4,839,814, Jun. 13, 1989, Size independent modular web processing line and modules; Leonard R. Steidel, **364/469**; 101/248; 226/29, 111 [IMAGE AVAILABLE]
- 58. 4,837,506, Jun. 6, 1989, Apparatus including a focused UV light source for non-contact measuremenht and alteration of electrical properties of conductors; Joseph M. Patterson, 324/752; 250/311; **364/571.01** [IMAGE AVAILABLE]
- 59. 4,821,205, Apr. 11, 1989, Seismic isolation system with reaction mass; Herman P. Schutten, et al., **364/508**; 248/550, 638 [IMAGE AVAILABLE]
- 60. 4,817,268, Apr. 4, 1989, Method of and arrangement for exchanging tool holders in working units for working of workpieces; Hans-Ulrich Jaissle, et al., 483/1; 29/26A, 426.1, 426.3; 408/35; **409/201**; 414/744.4; 483/32, 53, 56 [IMAGE AVAILABLE]
- 61. 4,807,167, Feb. 21, 1989, Rapid method of digital automatic gain **control**; Ben A. Green, Jr., **364/571.04**; 330/284; 340/683; **364/508** [IMAGE AVAILABLE]
- 62. 4,805,111, Feb. 14, 1989, Size independent modular web processing line and modules; Leonard R. Steidel, **364/469**; 101/181, 248; 226/9, 29, 111; 318/625; **364/138**, **174**, **471** [IMAGE AVAILABLE]
- 63. 4,782,452, Nov. 1, 1988, Acoustic detection of milling tool touch to a workpiece; Charles E. Thomas, **364/550**; 73/609, 660; 340/680, 683; **364/508** [IMAGE AVAILABLE]
- 64. 4,771,792, Sep. 20, 1988, Non-invasive determination of mechanical characteristics in the body; Joseph B. Seale, 128/774; 73/575; 128/649, 677; **364/508** [IMAGE AVAILABLE]
- 65. 4,764,760, Aug. 16, 1988, Automatic gain **control** for machine tool monitor; James F. Bedard, et al., 340/680; 73/104, 660; 340/683; **364/474.17** [IMAGE AVAILABLE]
- 66. 4,762,040, Aug. 9, 1988, Blade sharpening and guide mechanism; Bernardo Alcantara Perez, et al., 83/56, 76.8, 174, 940; **451/58**, **420** [IMAGE AVAILABLE]
- 67. 4,759,243, Jul. 26, 1988, Method and apparatus for optimizing single point machining operations; Robert A. Thompson, **82/1.11** [IMAGE AVAILABLE]
- 68. 4,758,964, Jul. 19, 1988, Method and apparatus for monitoring machine parts; Gerd Bittner, et al., **364/508**: 73/579, 660; 340/680, 683; **364/506**, **550** [IMAGE AVAILABLE]
- 69. 4,753,048, Jun. 28, 1988, Method of for grinding; Haruhiko Asada, et al., **451/11**, **26**, **28**, **182** [IMAGE AVAILABLE]
- 70. 4,724,524, Feb. 9, 1988, **Vibration**-sensing **tool** break and touch detector optimized for machining conditions; Charles E. Thomas, et al., **364/474.17**; 73/104, 660; 340/680; **364/148**, **157**, **474.15**, **474.37**, **508** [IMAGE AVAILABLE]
- 71. 4,719,586, Jan. 12, 1988, Manufacturing process **control**; John A. Moyer, et al., **364/552**, **183**, **468**, **571.02**, **DIG.2** [IMAGE AVAILABLE]
- 72. 4,704,693, Nov. 3, 1987, Acoustic tool touch detector with minimized detection delay; Charles E. Thomas, **364/508**; 73/609, 660; 340/680, 683; **364/474.18**, **551.01** [IMAGE AVAILABLE]
- 73. 4,694,401, Sep. 15, 1987, Apparatus for forming diverse shapes using a look-up table and an inverse transfer function; Toshiro Higuchi, **364/474.11**, **474.02**, **474.29**, **474.35**, **553** [IMAGE AVAILABLE]
- 74. 4,693,146, Sep. 15, 1987, Method and apparatus for achieving chip separation while machining work pieces; Theodor Dombrowski, et al., **82/118**, **11.5**, **104**, **137**, **904** [IMAGE AVAILABLE]
- 75. 4,680,998, Jul. 21, 1987, Toric lenses, method and apparatus for making same; Buford W. Council, Jr., **82/1.11**, **12**, **18**, **18**, **137**; **451/42**, **163**, **277** [IMAGE AVAILABLE]
- 76. 4,667,546, May 26, 1987, Method for achieving chip separation while

- machining work pieces; Theodor Dombrowski, et al., **82/104**, **133**, **137**, **904** [IMAGE AVAILABLE]
- 77. 4,657,451, Apr. 14, 1987, Contact detector for a machine tool; Yuzuru Tanaka, **409/186**; 324/207.17, 207.23, 226; 408/6, 13 [IMAGE AVAILABLE]
- 78. 4,656,868, Apr. 14, 1987, Method and apparatus for discriminating **cutting*** state from non-**cutting*** state in machine tool; Hidekazu Azuma, et al., 73/587; 83/72; 340/680; 408/11; **409/194**; **451/9** IMAGE AVAILABLEI
- 79. 4,646,754, Mar. 3, 1987, Non-invasive determination of mechanical characteristics in the body; Joseph B. Scale, 128/774; 73/575; 128/649, 677; **364/508** [IMAGE AVAILABLE]
- 80. 4,642,617, Feb. 10, 1987, Acoustic tool break detection system and method; Charles E. Thomas, et al., 340/680; 73/104, 660; 340/683; **364/474,17** [IMAGE AVAILABLE]
- 81. 4,640,156, Feb. 3, 1987, Production of short metal fibers; Takeo Nakagawa, et al., **82/1.11**; 29/4.53; 144/42; 407/10, 114, 115 [IMAGE AVAILABLE]
- 82. 4,638,433, Jan. 20, 1987, Microprocessor controlled garage door operator; Wayne R. Schindler, **364/400**; 49/28; 160/189; 318/264, 265, 266 [IMAGE AVAILABLE]
- 83. 4,636,780, Jan. 13, 1987, Acoustic monitoring of **cutting** conditions to detect tool break events; Charles E. Thomas, et al., 340/680; 73/104, 660; 340/683; **364/474.17** [IMAGE AVAILABLE]
- 84. 4,636,779, Jan. 13, 1987, Acoustic detection of tool break events in machine tool operations; Charles E. Thomas, et al., 340/680; 73/104, 660; 340/683; **364/474.17** [IMAGE AVAILABLE]
- 85. 4,632,612, Dec. 30, 1986, Spindle orientation apparatus; Richard J. Loerch, **409/231**; 408/9 [IMAGE AVAILABLE]
- 86. 4,631,683, Dec. 23, 1986, Acoustic detection of contact between **cutting*** tool and workpiece; Charles E. Thomas, et al., **364/474.01**; 73/609, 613, 660; 318/563; **364/183**, **184**, **474.17**, **474.37**, **508**; 371/5.3, 62, 64; 377/16 [IMAGE AVAILABLE]
- 87. 4,618,7,29 Oct. 21, 1986, Method and apparatus for machining racks for steering gear; Arthur E. Bishop, et al., **409/58**; **451/127**, **137**, **215** [IMAGE AVAILABLE]
- 88. 4,617,503, Oct. 14, 1986, Active datum for coordinate reference in a numerically controlled machine tool; Richard K. Davis, et al., 318/572, 39; **364/474.34** [IMAGE AVAILABLE]
- 89. 4,606,386, Aug. 19, 1986, Universal profiling machine; Carl R. Walker, 144/134B, 2R, 134A, 137, 145A; **409/220**, **224** [IMAGE AVAILABLE]
- 90. 4,584,916, Apr. 29, 1986, Lead face machining apparatus; Mamoru Inoue, et al., **82/19**, **147**; 384/12; **409/904** [IMAGE AVAILABLE]
- 91. 4,584,915, Apr. 29, 1986, **Control** system for a cam follower and tool; Takashi Ichiyanagi, et al., **82/19**, **118**; 318/578; **364/474.02**; **409/127** [IMAGE AVAILABLE]
- 92. 4,565,474, Jan. 21, 1986, Method of generating involute tooth forms with a milling **cutter**; Paul A. S. Charles, **409/51**, **38**, **40**, **55**; **451/147** [IMAGE AVAILABLE]
- 93. 4,563,897, Jan. 14, 1986, Apparatus for monitoring tool life; Arthur I. W. Moore, 73/587, 104; **364/157**, **474.17** [IMAGE AVAILABLE]
- 94. 4,562,392, Dec. 31, 1985, Stylus type touch probe system; Richard K. Davis, et al., 318/572; **82/11.2**; 318/39, 632; **364/474.34**, **474.37** [IMAGE AVAILABLE]
- 95. 4,558,311, Dec. 10, 1985, Method and apparatus for monitoring the tool status in a tool machine with cyclic machining; Roland Forsgren, et al., 340/680; 73/660; **364/474.17** [IMAGE AVAILABLE]
- 96. 4,554,495, Nov. 19, 1985, Datum reference for tool touch probe system; Richard K. Davis, 318/572, 640; **364/474.3**, **474.34**, **474.37** [IMAGE AVAILABLE]
- 97. 4,547,847, Oct. 15, 1985, Adaptive **control** for machine tools; Eugene A. Olig, et al., **364/148**; 318/561; **364/164**, **474.15**, **474.17**, **511** [IMAGE AVAILABLE]
- 98. 4,547,777, Oct. 15, 1985, Method of radio-position-finding through determination of phases of electromagnetic waves and receiving device for practicing the method; Christian Lamiraux, 342/394, 395; **364/452**;

- 455/77, 195.1 [IMAGE AVAILABLE]
- 99. 4,541,055, Sep. 10, 1985, Laser machining system; Donald L. Wolfe, et al., **364/474.08**; 219/121.82; **364/142**, **400**, **559**; 376/261 [IMAGE AVAILABLE]
- 100. 4,524,812, Jun. 25, 1985, Modulated forming machine; Peter H. Murphy, 144/134A; 83/72, 477.2; 144/356; 318/39; **409/148**, **183** [IMAGE AVAILABLE]
- 101. 4,513,376, Apr. 23, 1985, Phasor processing of induction logs including skin effect correction; Thomas D. Barber, **364/422**; 324/339 [IMAGE AVAILABLE]
- 102. 4,511,977, Apr. 16, 1985, Punch marker height **control**; Daryl Schuettpelz, **364/474.34**, **474.35**, **569**; 377/16 [IMAGE AVAILABLE]
- 103. 4,510,717, Apr. 16, 1985, Lens finishing apparatus; Dewayne J. Sherwin, **451/163**; D15/124, 125 [IMAGE AVAILABLE]
- 104. 4,486,866, Dec. 4, 1984, Seismic exploration using non-impulsive vibratory sources activated by stationary, Gaussian codes, and processing that results in distortion-free final records particularly useful in stratigraphic trap determination; Francis Muir, 367/39; **364/421**; 367/100 [IMAGE AVAILABLE]
- 105. 4,484,931, Nov. 27, 1984, Thread grinder; Anthony Kushigian, **451/222**, **141** [IMAGE AVAILABLE]
- 106. 4,471,436, Sep. 11, 1984, Phasor processing of induction logs including shoulder and skin effect correction; Richard T. Schaefer, et al., **364/422**; 324/339 [IMAGE AVAILABLE]
- 107. 4,467,425, Aug. 21, 1984, Deconvolution filter for induction log processing; Richard T. Schaefer, et al., **364/422**; 324/339 [IMAGE AVAILABLE]
- 108. 4,460,275, Jul. 17, 1984, Method and apparatus adapted for automatic or semi-automatic fabrication of ultra-precision opthalmic lenses, e.g., contact lenses; Robert G. Spriggs, 356/358, 363; **451/6**, **42** [IMAGE AVAILABLE]
- 109. 4,451,187, May 29, 1984, Machine tool; Michio Ishikawa, et al., **409/187**; 408/11, 17; **409/186**, **194** [IMAGE AVAILABLE]
- 110. 4,441,103, Apr. 3, 1984, Unusual vibration transducer apparatus in machine tools; Hirokuni Urabe, 340/680, 683; **364/474.17**; **451/11** [IMAGE AVAILABLE]
- 111. 4,434,581, Mar. 6, 1984, Apparatus adapted for automatic or semi-automatic fabrication of ultra-precision ophthalmic lenses, e.g., contact lenses; Robert G. Spriggs, **451/173**; **82/11**; **451/42** [IMAGE AVAILABLE]
- 112. 4,422,265, Dec. 27, 1983, Multistation grinding machine; Keith Branston, **451/147**; **409/158**, **198**; **451/64**, **413**; D15/124 [IMAGE AVAILABLE]
- 113. 4,419,912, Dec. 13, 1983, Vibration threading **lathe** for precision screw **cutting**; Tatuo Sotome, et al., **82/110**, **11.1**, **904** [IMAGE AVAILABLE]
- 114. 4,417,489, Nov. 29, 1983, Method and apparatus for machining a workpiece by varying the tool geometry; Chunghorng R. Liu, **82/i.11**, **158** [IMAGE AVAILABLE]
- 115. 4,412,465, Nov. 1, 1983, Tool compensator; Lawrence B. Wright, **82/1.2**, **118**, **133**; 408/12, 13, 130 [IMAGE AVAILABLE]
- 116. 4,410,970, Oct. 18, 1983, Method and apparatus for measuring and analyzing sound characteristics of record discs; Kenneth S. K. Law, 369/58; 73/659; 324/76.12; **364/485** [IMAGE AVAILABLE]
- 117. 4,409,659, Oct. 11, 1983, Programmable power supply for ultrasonic applications; Janet Devine, **364/474.16**; **82/118**; 83/701, 956; 228/1.1, 7, 8, 110.1; **364/474.02**, **508**, **511**; 408/700 [IMAGE AVAILABLE]
- 118. 4,393,624, Jul. 19, 1983, Thread grinder; Anthony Kushigian, **451/24**, **72**, **222** [IMAGE AVAILABLE]
- 119. 4,385,473, May 31, 1983, Method for frequency regulation of tuning-fork vibrator; Shigeo Aoki, et al., **451/1**; 29/25.35; 310/312, 370; **451/57** [IMAGE AVAILABLE]
- 120. 4,356,376, Oct. 26, 1982, Pulse laser pretreated machining; Ranga Komanduri, et al., 219/121.72; 29/27C; **82/1.11**; 219/121.67, 121.68, 121.69, 121.7, 121.71, 121.84 [IMAGE AVAILABLE]

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- 148. 4,045,917, Sep. 6, 1977, Gear grinding machine; Herbert Loos, et al., **451/275** [IMAGE AVAILABLE]
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